DIFFERENTIAL PRESSURE TRANSMITTER FOR LOW AND DIFFERENTIAL PRESSURE

DRUCK & TEMPERATUR

Measuring ranges 0...2,5 mbar up to 0...1000 mbar
Output signal 4-20 mA, 2-wire
Output signal 0-10 V, 3-wire

Piezoresistive measuring elements ensure high reliability and accuracy. The robust coated cast aluminum housing guarantees high mechanical stability and good EMC properties.

Suitable for air and all non-aggressive gases

Application

Air conditioning and ventilation technology, fan control
Fill level monitoring
Environmental technology
Monitoring of air filters and air flows

Type	**5356 … 420**	**5356...010**
Output signal	4...20 mA, 2-wire	0...10 V, 3-wire
Power supply	24 VDC	24 VDC/AC +/-10%
Pin assignment	Pin: 1: + 24 VDC * 2: output 4-20 mA *	Pin: 1: + 24 VDC/AC 2: output 0-10 V 3: GND
Hysteresis	0,1 %	
Display	no	
Sensor element	piezoresistive	
Electrical connection	Screw clamps for 0,14-1,5 mm²	
Pressure connection	2 connections for hose 6 mm or 4 mm female Ø	
Cable gland	PG7	
Medium	only suitable for air and all non-aggressive gases	
Operating temperature range	-20°C up to +50°C	
Burden resistance	R_B ≤ 400 Ω	RL ≥ 2KΩ
Protection	IP 65 acc. to EN 60529 / IEC 529	
Case	Coated cast aluminium, light grey	
Weight	ca. 170 g	

* A special additional circuit prevents damage to the sensor due to incorrect pin assignment. Both pins are interchangeable.
A load resistor RB <= 400 Ω must be connected between pin 2 and the power supply ground at a voltage of +24 VDC.

Dimensional drawings

Dimensions in mm

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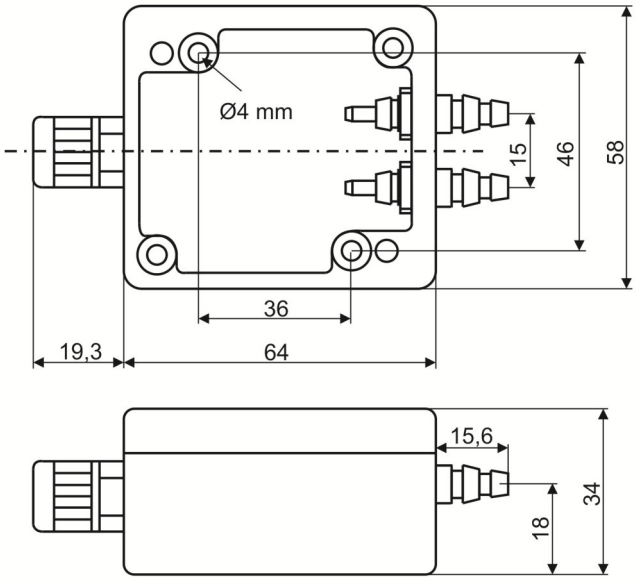
Baureihe 5357



Technical data differential pressure

Pressure range (mbar)	max. overload pressure(mbar)	Linearity error (±% v. EW)	Temperature error max. (±% v. EW) 0-50°C	Long term stability (% v.EW/year)	Repeat precision (%v.EW)	Response time of output (s) with damping
0 - 2,5	350	1,0	3,5	2	0,3	2,5
0 - 5	350	1,0	2,5	2	0,3	2,5
0 - 10	350	1,0	1	0,5	0,2	2,5
0 - 25	350	0,8	1	0,5	0,1	2,5
0 - 50	350	0,8	1	0,5	0,1	2,5
0 - 100	350	0,8	1	0,5	0,1	2,5
0 - 250	4-fold	0,5	1	0,1	0,1	2,5
0 - 500	4-fold	0,5	1	0,1	0,1	2,5
0 - 1000	2-fold	0,5	1	0,1	0,1	2,5

Technical data with electronic correction of the linearity error (differential pressure)

0 - 100	350	0,2	1	0,1	0,1	2,5
0 - 250	4-fold	0,2	1	0,1	0,1	2,5
0 - 500	4-fold	0,2	1	0,1	0,1	2,5
0 - 1000	2-fold	0,2	1	0,1	0,1	2,5

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